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Discovering a representation that allows auditory **data** to be parsimoniously represented is useful for many machine learning and signal **processing** tasks. ... R. Kompass, A generalized divergence measure for **non-negative matrix** ... P.D. O'Grady, B.A. Pearlmutter, Convolutive **non-negative matrix factorisation** with ...

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pure pixels as in conventional **digital** image **processing**. In such conditions, they considered the ... the old **data** set **using** a reduced number of principal com- ponents. Sparse **Non Negative Matrix Factorisation** is applied on ...

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5. Welcome to IEEE Xplore 2.0: Convolutive Non-Negative Matrix ...

Jan 8, 2007 ... Convolutive **Non-Negative Matrix Factorisation** with a Sparseness Constraint ... Proceedings of the 2006 16th IEEE Signal **Processing** Society Workshop on ... **Digital** Object Identifier: 10.1109/MLSP.2006.275588 ... a method for finding parts-based representations of **non-negative data**. ...

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6. Image Processing Systems - Patent application - This invention ...

A method of driving an electroluminescent display with video **data using** the method A preferred technique employs **non-negative matrix factorisation** of a ... Preferably inputs 109 and 111 are **digital** inputs for ease of interfacing; ...

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7. (WO/2006/067520) DIGITAL SIGNAL PROCESSING METHODS AND APPARATUS

... This invention relates to a method of digitally **processing data** in a **data** array defining a target **matrix** (X) **using non-negative matrix factorisation** to ...

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8. Bayesian Inference for Nonnegative Matrix Factorisation Models

D. D. Lee and H. S. Seung, "Algorithms for **non-negative matrix** factorization," in ... "Sparse overcomplete latent variable decomposition of counts **data**," in ... methods and **non-negative** decompositions," **Digital Signal Processing**, vol. ...

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9. [PDF] Non-Negative Matrix Factorization And Its Application to Audio

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Easy to record **using** a microphone and to reproduce by a loudspeaker. ■ **Digital** signals: sampling frequency 44.1 kHz commonly Virtanen / NMF. PCA on face **data** **Factorisation**, in proc. 13th European Signal **Processing** Conference Antalaya, ... **Matrix Factorisation** for Audio Signal Modelling, ICASSP 2008
[www.cs.cmu.edu/~bhiksha/courses/11-755/class16/nmf.pdf](#) - [Similar](#)

10. [\[PDF\] Spectrogram Factorization Using Phase Information](#)

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ative elements, whereas spectrogram **data** is always **non-negative**. Workshop on Statistical and Perceptual Audio **Processing**, 2004. ... In Proceedings of International Conference on **Digital** Audio Effects, pages 65–69, Hamburg, Germany, ... Convolutive **non-negative matrix factorisation** with sparseness con- straint. ...
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